

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/676,873	
Source:	OIPE	
Date Processed by STIC:	4-8-04	

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221 <u>Effective 12/13/03</u>: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry directly to (EFFECTIVE 12/01/03):
 U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

<u>ER</u> ROR	DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10	1676,873	
ATTN: N	NEW RULES CASES:	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH	•	
1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."		
2	Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.		
3	Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead.		
4	Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as requirensure your subsequent submission is saved in ASCII text.	ed by the Sequence Rules. Please	
5	_Variable Length	Sequence(s)contain n's or Xaa's representing more than on each n or Xaa can only represent a single residue. Please pre residue having variable length and indicate in the <220>-<223>	sent the maximum number of each	
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> set sequences(s) Normally, PatentIn would automati previously coded nucleic acid sequence. Please manually copy the subsequent amino acid sequence. This applies to the mand Artificial or Unknown sequences.	cally generate this section from the he relevant <220>-<223> section to	
7	_Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following the sequence of the sequ	where "X" is shown) ny subheadings under this heading)	
		Please also adjust the "(ii) NUMBER OF SEQUENCES:" respo	nse to include the skipped sequences.	
8	_Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the fo <210> sequence id number <400> sequence id number 000	llowing lines for each skipped sequence.	
	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence List Per 1.823 of Sequence Rules, use of <220>-<223> is MANDAT In <220> to <223> section, please explain location of n or Xaa,	ORY if n's or Xaa's are present.	
10	_Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses ar scientific name (Genus/species). <220>-<223> section is required a Artificial Sequence		
11	_Use of <220>	Sequence(s) missing the <220> "Feature" and associated Use of <220> to <223> is MANDATORY if <213> "Organism" "Unknown." Please explain source of genetic material in <220> (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 2963	response is "Artificial Sequence" or to <223> section.	
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2 resulting in missing mandatory numeric identifiers and response listing). Instead, please use "File Manager" or any other manual	s (as indicated on raw sequence	
13	_ Misuse of n/Xaa	"n" can only represent a single <u>nucleotide</u> ; "Xaa" can only repre	sent a single amino acid	

Does Not Comply Corrected Diskette Needed

TEWO

RAW SEQUENCE LISTING

DATE: 04/08/2004

PATENT APPLICATION: US/10/676,873

S/10/676,873 TIME: 07:33:37

Input Set : N:\efs\10676873_efs\COTHP01002-usbios-S000001.txt

Output Set: N:\CRF4\04082004\J676873.raw

```
3 <110> APPLICANT: CHAN, JOHN
             BAYNES, BRIAN
              ZHANG, SHENGSHENG
      7 <120> TITLE OF INVENTION: METHODS OF ENGINEERING SPATIALLY CONSERVED MOTIFS IN
POLYPEPTIDES
      9 <130> FILE REFERENCE: COTH-PO1-002
     11 <140> CURRENT APPLICATION NUMBER: 10/676,873
     12 <141> CURRENT FILING DATE: 2003-09-30
     14 <150> PRIOR APPLICATION NUMBER: 60/414,688
     15 <151> PRIOR FILING DATE: 2002-09-30
     17 <160> NUMBER OF SEQ ID NOS: 4
     19 <170> SOFTWARE: PatentIn version 3.2
     21 <210> SEQ ID NO: 1
                                                      Please see Hen#10 on
     22 <211> LENGTH: 474
                                                      ERROR SUMMARY SHEET
     23 <212> TYPE: DNA -
     24 <213> ORGANISM: (TNF alpha chain b mutation
     26 <400> SEQUENCE: 1
     27 gtcagatcat cttctcgaac cccgagtgac aagcctgtag cccatgttgt agcaaaccct
                                                                             120
     29 caaqctqaqq qqcaqctcca qtqqctqaac cqccqggcca atgccctcct ggccaatggc
                                                                             180
     31 gtggagetga gagataacca getggtggtg ceateagagg geetgtaeet catetaetee
     33 caggteetet teaagggeea aggetgeece tecacecatg tgeteeteae ceacaceate
                                                                             240
                                                                             300
     35 ageograteg cogtetecta coagaccaag gteaacetee tetetgecat caagageeee
     37 tgccagaggg agaccccaga gggggctgag gccaagccct ggtatgagcc catcgatctg
                                                                             360
                                                                             420
     39 ggaggggtet tecagetgga gaagggtgae egaeteageg etgagateaa teggeeegae
                                                                             474
     41 tatctcqact ttqccqaqtc tqqqcaqqtc tactttqgga tcattqccct gtga
     44 <210> SEQ ID NO: 2
     45 <211> LENGTH: 157
                                          - Same - see , tem 10
     46 <212> TYPE: PRT.
     47 <213> ORGANISM: TNF alpha protein
     49 <400> SEQUENCE: 2
     51 Val Arg Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala Gly Val
                        5 ·
                                            10
     55 Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg
                                        25
     59 Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu
            35
                                    4.0
     63 Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe
                                55
     67 Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile
                            70
     71 Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala
                                            90
                       85
     75 Ile Lys Ser Pro Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys
                  . 100
                                       105
```

RAW SEQUENCE LISTING

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Output Set: N:\CRF4\04082004\J676873.raw

```
79 Pro Gln Tyr Glu Pro Ile Asp Leu Gly Gly Val Phe Gln Leu Glu Lys
          115
                               120
                                                    125
83 Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Leu Phe
      130
                           135
                                                140
87 Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu
88 145
                       150
91 <210> SEQ ID NO: 3
                                                - same - see Hem #10
92 <211> LENGTH: 474
93 <212> TYPE: DNA -
94 <213> ORGANISM: (TNF alpha chain c mutation
96 <400> SEQUENCE: 3
97 gtcagatcat cttctcgaac cccgagtgac aagcctgtag cccatgttgt agcaaaccct
                                                                           60
99 caagetgagg ggcageteca gtggetgaac egeegggeea atgeeeteet ggccaatgge
                                                                          120
101 gtggagetga gagataacca getggtggtg ceatcagagg geetgtaeet catcagttee
                                                                           180
                                                                           240
103 caggteetet teaagggeea aggetgeeee teeacceatg tgeteeteac ceacaceate
105 ageogeateg cegtetecta ceagaceaag gteaacetee tetetgeeat caagageeee
                                                                           300
107 tgccagaggg agaccccaga gggggctgag gccaagccct ggtatgagcc catccatctg
                                                                           360
                                                                           420
109 ggaggggtct tccaqctgga gaagggtgac cgactcagcg ctgagatcaa tcggcccgac
111 tatctcgact ttgccgagtc tgggcaggtc tactttggga tcattgccct gtga
                                                                           474
114 <210> SEQ ID NO: 4
115 <211> LENGTH: 157
117 <213> ORGANISM: (TNF alpha protein sequence chain c) - same - see ten #10
119 <400> SEQUENCE: 4
121 Val Arg Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val
                                         10
125 Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg
                                     25
129 Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu
            35
133 Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Ser Ser Gln Val Leu Phe
137 Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile
138 65
                        70
                                             75
141 Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala
                    85
                                         90
145 Ile Lys Ser Pro Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys
                100
                                     105
149 Pro Gln Tyr Glu Pro Ile His Leu Gly Gly Val Phe Gln Leu Glu Lys
                                                     125
            115
                                120
153 Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Leu Phe
        130
                            135
157 Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu
158 145
                        150
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/676,873

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